

Introduction

meeting on fast simulation

10 January 2008

startup of activity on fast simulation

- The main goal is to setup tools to do fast simulation aimed to the preparation of the Technical Design Report of the Super B project
- The tools should
 - simulate the Super B environment reasonably well
 - generate very large samples of the main physics processes

to allow good extrapolations of the sensitivities of the main measurements

Which fast simulation package?

- The work has (just) started
- A few possibilities have already been identified
 - pravdaMC
 - Lelaps
- and there are others:
 - fast simulation package used by CMS (Mauro will tell something today)
 - ...
- Time is quite tight and the decisional process cannot take too long
- The decision requires to do work

Which fast simulation package?

- Some discussion already last month at the mini-computing workshop:
(<https://agenda.infn.it/conferenceDisplay.py?confId=213>)
 - it was stressed how helpful it would be to exploit the Babar framework as much as possible
 - this is a suggestion to keep in mind

A few words on Lelaps/CEPack

- presented by N. Graf at the December workshop
(home page: <http://lelaps.freehep.org/>)
- originally conceived as fast simulation for Babar, it was actually almost never used
- Instead it has been developed as standalone package and used by the Linear Collider community till a couple of years ago
- It's worthwhile to understand:
 - its limitations in terms of simulation
 - if it's possible to use it within the current Babar framework
- Started looking at it. More people welcome.

manpower

System	People (as of today)	FTE
Interaction region/bkg	<u>G. Marchiori</u> , E. Paoloni (G. Calderini)	?
SVT	<u>N. Neri</u> , C. Cheng, ...	?
DCH	<u>M. Rama</u> , G. Finocchiaro, S. Pacetti, ...	?
PID	<u>J. Schwiening</u> , D. Aston, ...	?
EMC	<u>C. Cecchi</u> , S. Germani, ...	?
IFR	<u>M. Rotondo</u> , ...	?

__ = contact people

* in addition G. Simi not assigned to a system yet